

Appendix I: Updates to Dalziel's Food Defence (Defense) Events: 1950-2008, updated to include 2008-2022
Benjamin Lieb – Coastal Carolina University Student, Intelligence and National Security Studies; conferred Spring 2021

Date	Agent	Place	Agent	Death	Injury	Description/Reference
2008	Melamine	China	Chemical	6	300,000	Provinces in China had to seized baby milk powders products. The milk powder contained five hundred times the maximum allowed amount. https://www.bbc.com/news/10565838
2008	Dioxin	Ireland	Chemical	0	0	Irish pork products were tainted with dioxins. The pork products contained 80 to 200 times the allowed limit. The products were reached the high levels of dioxin from pig feed of a producer tainted with an industrial oil. https://www.nytimes.com/2008/12/07/world/europe/07iht-irish.4.18467497.html
2011	Pesticide	India	Chemical	143	Dozens	Multiple illegal liquor businesses were creating tainted alcohol. The alcohol was being mixed with pesticide. https://www.bbc.com/news/world-asia-india-16174531
2011	Ethylene glycol	China	Chemical	11	120	The containers that the vinegar was been stored used to be for antifreeze. The antifreeze tainted vinegar was served at a communal Ramadan meal in China' region of Xinjiang. https://www.theguardian.com/world/2011/aug/22/vinegar-contaminated-antifreeze-china-ramadan
2011	Dioxin	Germany	Chemical	Unknown	Unknown	German officials had to pull eggs and other products from store shelves because of the tainted feed given to the chickens and pigs. The feed was tainted when a manufacturer shipped tainted fat for the animals' feed. German officials believed that the levels of toxin in the meat and eggs was too low to affect humans. https://www.nytimes.com/2011/01/08/world/europe/08dioxin.html
2012	Norovirus	China	Chemical	Unknown	11,000	Amounts of norovirus were found in frozen strawberries grown in China. It is unknown where the contamination occurred. https://www.foodmanufacture.co.uk/Article/2014/07/04/Chinese-strawberries-food-safety-threat
2014	Malathion	Japan	Chemical	0	2,800	Toshiki Abe, a worker at Maruha Nichiro's Aqli Foods was charged with tainting food. The amount of chemical that was found in the food was 2.6m times higher than the allowed level.

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						https://www.foodnavigator-asia.com/Article/2014/01/29/Man-arrested-in-massive-Japanese-pesticide-tainting-scandal
2015	Bongkreikic Acid (Crocodile bile)	Mozambique	Biological	75	230+	The crocodile bile was found in the pombe of mourners who were attending a funeral. https://nypost.com/2015/01/12/nearly-70-die-after-drinking-beer-tainted-with-crocodile-bile/
2015	Oxalic Acid	Philippines	Chemical	2	1	A Milk Tea House's milk tea powder and syrup were tainted with oxalic acid. Police arrested the owner's son and charged him with murder. It was believed that he arrived at the shop and night before and tainted the products. https://www.rappler.com/nation/92858-milk-tea-poisoning-oxalic-acid/ https://newsinfo.inquirer.net/690355/milk-tea-deaths-shop-owner-hits-raps-vs-son-mpd-cites-oxalic-acid
2016	Mercury	Germany	Chemical	1	2	Klaus O. peppered co-workers' food. He placed mercury onto their food. He was arrested in 2018 after surveillance saw him putting a powder on a co-worker's sandwich. https://www.nbcnews.com/news/world/german-man-poisoned-his-co-workers-lunches-one-them-has-n1112781
2016	Pesticide	Pakistan	Chemical	23	54	The sweet shop owners were arrested under food control and poisonous substances laws. Officials say that the pesticides were inside the sweet shop for safe keeping while the pesticide shop was being renovated. https://www.bbc.com/news/world-asia-36127892
2016	Sand and Black Soil	United States	Biological	Unknown	Unknown	Faye Slye contaminated GNP products with sand and black soil. Slye got the sand and black soil from the parking lot into a plastic bag. Slye placed the contents of the bag and contaminated the GNP products. GNP recalled their products after the second time as ask and dirt were appearing in the product tubs. https://www.foodsafetynews.com/2017/12/woman-draws-jail-sentence-for-contaminating-chicken-in-2016/#.Wxe-jkxFyuU

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2017	Needles	United Kingdom	Biological	0	1	Morrisons was forced to recall thousands of their bags of green beans. This was after two incidents happened where customers found needles hidden inside the green beans. https://www.bbc.com/news/world-asia-36127892
2018	Ethylene glycol	Germany	Chemical	0	0	A German man confessed to tainting five jars of baby food and placing them back on the shelves at a supermarket. The jars were laced with ethylene glycol and investigators said there was enough to kill a child. https://www.npr.org/2018/10/23/659815368/man-sentenced-in-germany-for-poisoned-baby-food-scheme
2018	Various Objects	United States	Biological	0	0	Jonathan Lane was a quality control line worker for Johnsonville. Lane placed different dangerous items into sausages. Lane pulled the products from the production line and alerted supervisors. https://www.jsonline.com/story/news/crime/2018/11/29/sausage-worker-gets-4-1-2-years-federal-prison-tampered-brat/2148546002/
2018	Razor Blades	Australia	Biological	0	4	Strawberries were contaminated with needles. The brands that were in question were berry Licious and Berry Obsession. There was no consumer recall issued, rather there was only a trade recall issued. There was also no warning put on official consumer and supermarket websites. There was a period in which the strawberries were still sold from the first incident (first incident was reported on Sunday; strawberries were not recalled until Wednesday). https://www.abc.net.au/news/2018-09-14/safety-response-to-strawberry-tampered-with-needles-not-enough/10242700
2018-2020	Metal	United Kingdom	Biological	0	0	Nigel Wright placed metal shards in three jars of baby food. This was a part of Wright's plan to extort £1.4 million from Tesco. https://thelincolnite.co.uk/2020/10/lincolnshire-farmer-jailed-for-poisoning-baby-food-and-blackmail/

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2019	chlorophyll, beta-carotene and soya	Germany and Italy	Chemical	Unknown	Unknown	Cases of olive oil were switched out with low-quality sunflower oil with chlorophyll beta-carotene, and soya. The adulteration was performed by a gang in Italy under unsanitary conditions. https://www.oliveoiltimes.com/business/150000-liters-of-fraudulent-oil-seized-by-europol/68065
2019	Unknown	United States	Chemical	Unknown	Unknown	There was around 191,928 pounds of Duke's Meat Corp. and Conagra brand ready-to-eat pork sausage that was recalled. The recall included products that were manufactured between Jan 16 th and Mar. 7 th , 2019. https://www.webmd.com/food-recipes/food-poisoning/news/20190314/tons-of-meat-snacks-recalled-after-tampering-claim
2019	Urine	United States	Biological	Unknown	Unknown	Maurice Howard was charged with tampering consumer product at The Monogram Food Solutions LLC plant. Devin Stockton was also accused with Howard, Stockton recorded Howard urinating. https://www.wfxrtv.com/news/man-indicted-accused-of-urinating-on-ready-to-eat-meat-product-in-attempt-to-extort-food-manufacturer/
2019-2020	Diethylene Glycol	Brazil	Chemical	4	18	Belorizontina brand beers were tainted with diethylene glycol, which affected 32 lots of beers. The company said that monoethylene glycol is used in their operations. Customers to not dispose of the beer in sinks, toilets, or the garbage. Rather label the beer with a "Do not ingest. Product unsuitable for consumption" and taken to a designated reception point. Brazil beer contamination
2021	Unknown	Germany	Chemical	0	7	A woman from Mainz, contaminated food and drinks at her university. The woman had been a student at the university since 2017. When asked why she contaminated the food and drinks she stated, "she felt persecuted". She was not arrested butt was placed in a psychiatric hospital.

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						https://www.foodsafetynews.com/2022/04/student-held-in-relation-to-german-poisoning-incident/
2021	Broken glass or plastic	Germany/Netherlands	Biological	0	0	Counterfeit jars of Nestle's Nescafe Gold brand coffee were found on shelves at markets and smaller shops in both Germany and the Netherlands. The jars were neither manufactured nor distributed by Nestle. https://www.securindustry.com/food-and-beverage/counterfeit-nescafe-gold-coffee-found-in-germany/s104/a13946/#.Ylh6aC-B1hH
2022	Ecstasy	Germany/Netherlands	Chemical	1	11	Champagne bottles were laced with ecstasy in both Germany and the Netherlands. It is still unknown how the ecstasy ended up in the product. The NVWA has not been able to determine if more bottles are contaminated or not. https://www.foodsafetynews.com/2022/02/warning-after-champagne-laced-with-drugs-kills-one-sickens-11/
2022	Unknown	Ukraine	Chemical	4+	500+	Russian troops became ill after being served poisoned food and alcohol. This took place in the Ukrainian town of Iziium. The poisoned food were buns that were given to the troops by citizens of the city. The deaths are considered 'non-combat losses'. https://www.upi.com/Top_News/World-News/2022/04/02/Ukraine-civilians-poison-Russian-troops-Iziium/6921648950408/